

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF071818\  
 Data File : BF107503.D  
 Acq On : 19 Jul 2018 8:55  
 Operator : JU/SJ  
 Sample : J4033-04  
 Misc :  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 071618-DBRI-F-D-M

Quant Time: Jul 19 10:50:33 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF071618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 18 11:55:34 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.98  | 152  | 111648   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.27  | 136  | 401719   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.02 | 164  | 203012   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.52 | 188  | 358481   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.17 | 240  | 278031   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.70 | 264  | 231718   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.61  | 112  | 340578   | 46.33  | ng    | 0.00     |
| 7) Phenol-d6                | 6.60  | 99   | 287729   | 30.27  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.55  | 82   | 872351   | 115.80 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.82 | 330  | 172928   | 96.95  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.34  | 172  | 1353074  | 114.95 | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.11 | 244  | 1142302  | 102.08 | ng    | 0.00     |

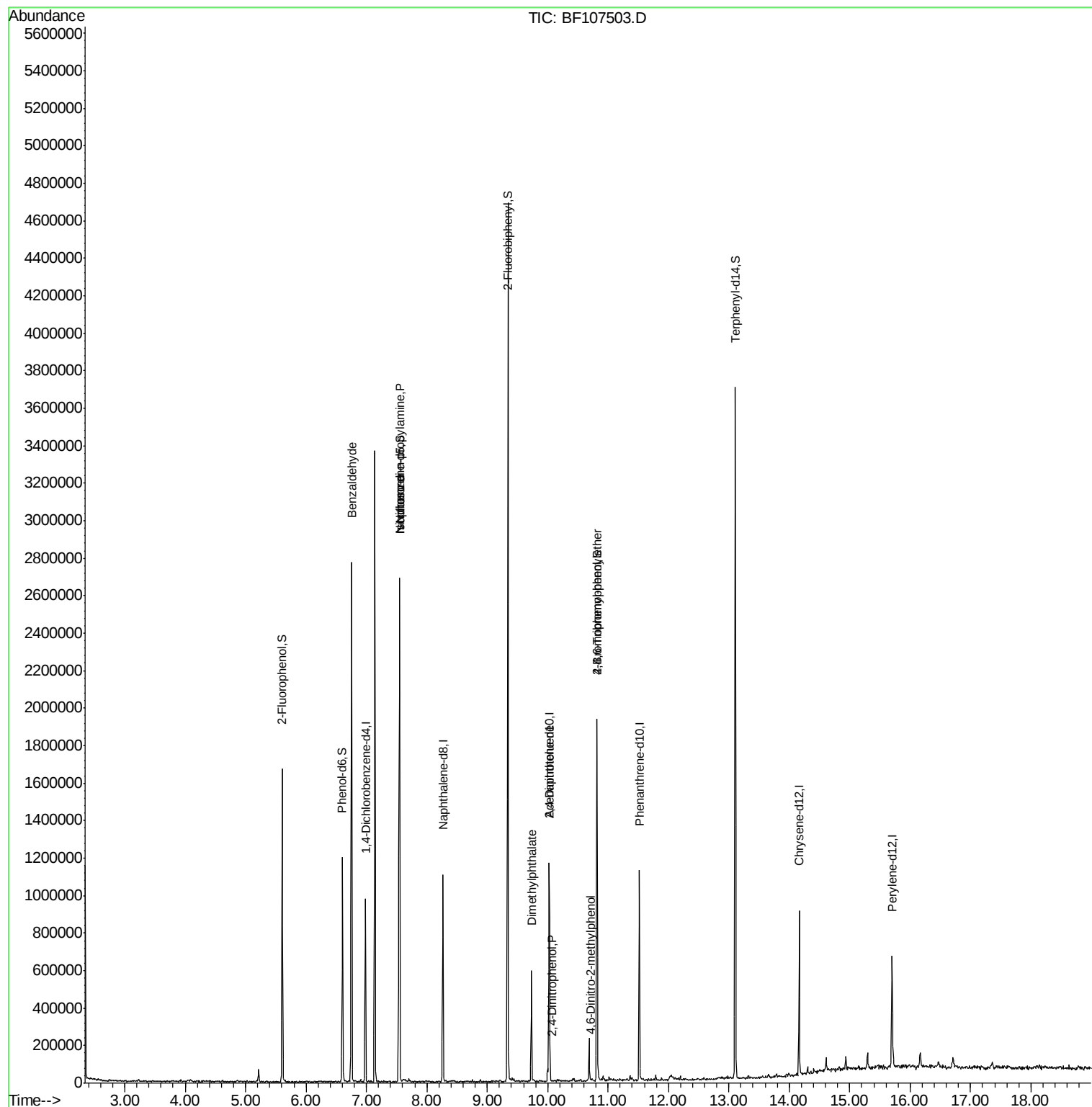
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 9) Benzaldehyde                | 6.75  | 77   | 17701    | 2.315  | ng    | # 82   |
| 19) n-Nitroso-di-n-propylamine | 7.55  | 70   | 140244   | 20.608 | ng    | # 78   |
| 25) Isophorone                 | 7.55  | 82   | 872341   | 58.420 | ng    | # 64   |
| 49) Dimethylphthalate          | 9.73  | 163  | 185539   | 11.503 | ng    | # 98   |
| 53) 2,4-Dinitrophenol          | 10.08 | 184  | 145      | 2.443  | ng    | # 1    |
| 56) 2,4-Dinitrotoluene         | 10.02 | 165  | 26308    | 6.557  | ng    | # 25   |
| 64) 4,6-Dinitro-2-methylphenol | 10.71 | 198  | 112      | 7.538  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.82 | 248  | 20846    | 5.083  | ng    | # 1    |

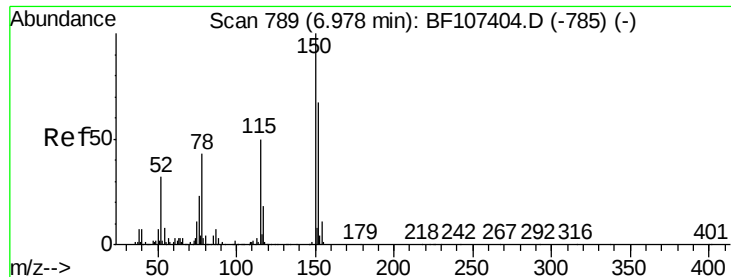
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF071818\  
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Quant Time: Jul 19 10:50:33 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 18 11:55:34 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.98 min Scan# 790

Delta R.T. -0.01 min

Lab File: BF107503.D

Acq: 19 Jul 2018 8:55

Instrument :

BNA\_F

ClientSampleId :

071618-DBRI-F-D-M

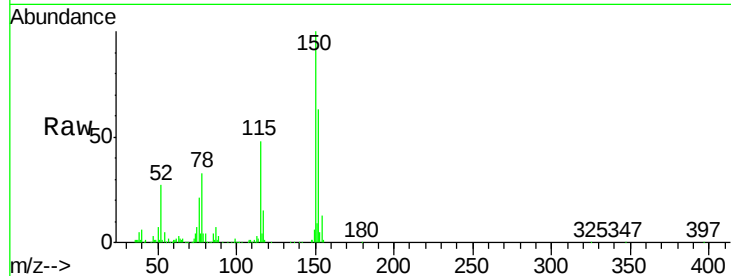
Tgt Ion:152 Resp: 111648

Ion Ratio Lower Upper

152 100

150 157.9 124.6 186.8

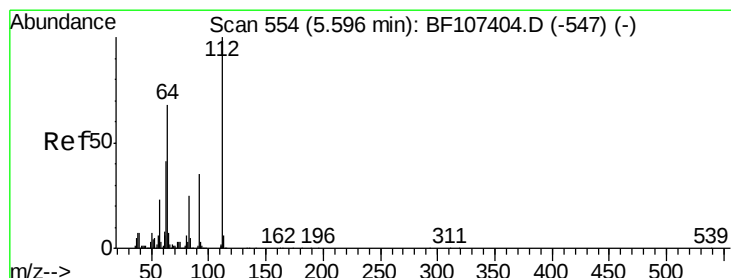
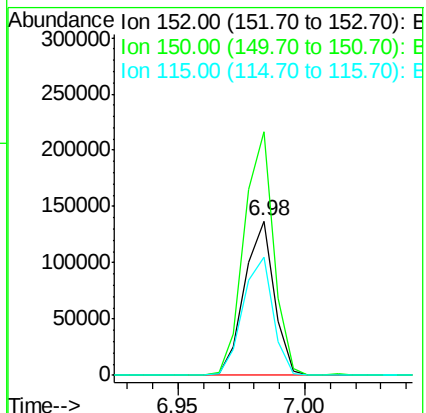
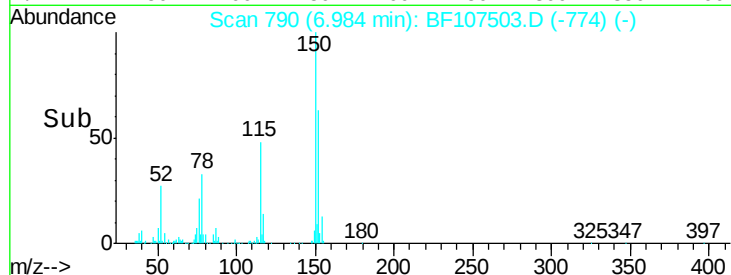
115 76.6 50.1 75.1#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 46.329 ng

RT: 5.61 min Scan# 556

Delta R.T. -0.01 min

Lab File: BF107503.D

Acq: 19 Jul 2018 8:55

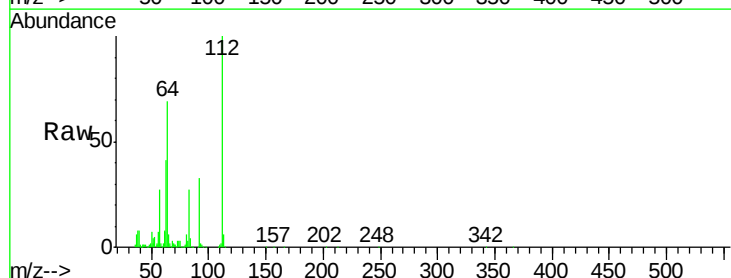
Tgt Ion:112 Resp: 340578

Ion Ratio Lower Upper

112 100

64 69.4 47.9 71.9

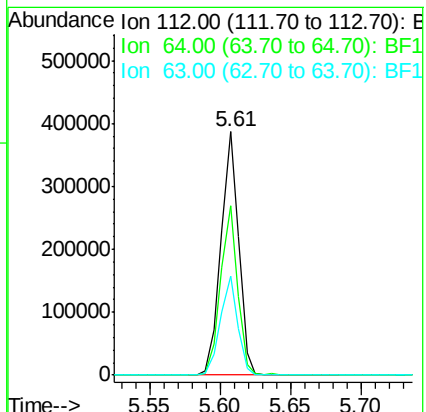
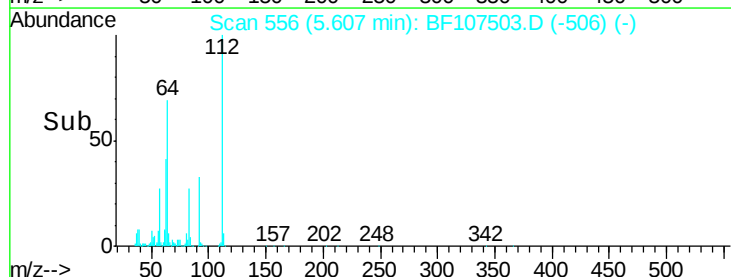
63 40.9 23.7 35.5#

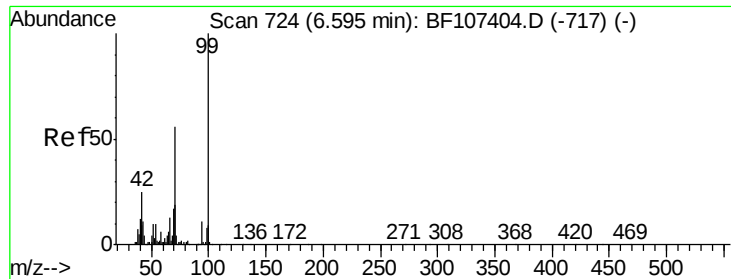


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 30.273 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107503.D

Acq: 19 Jul 2018 8:55

Instrument :

BNA\_F

ClientSampleId :

071618-DBRI-F-D-M

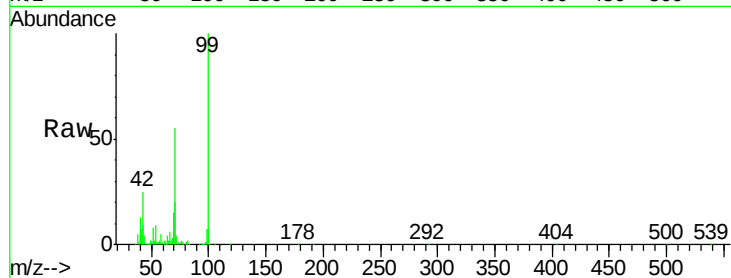
Tgt Ion: 99 Resp: 287729

Ion Ratio Lower Upper

99 100

42 24.9 14.5 21.7#

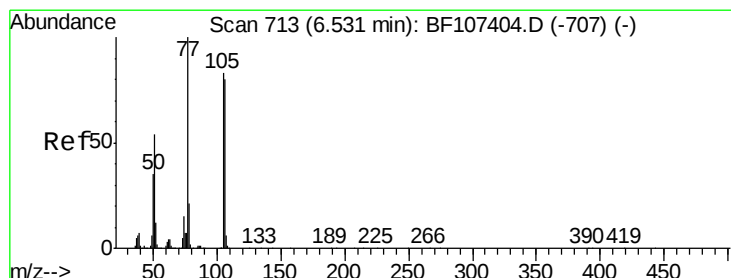
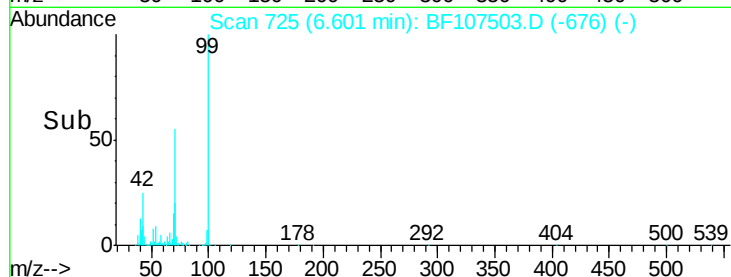
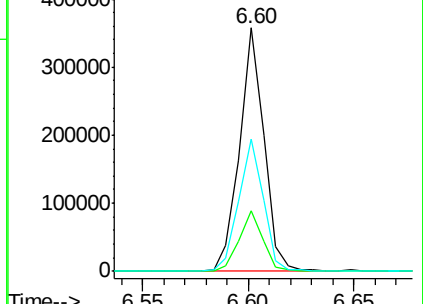
71 54.5 25.4 38.0#



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#9

Benzaldehyde

Concen: 2.315 ng

RT: 6.75 min Scan# 751

Delta R.T. 0.21 min

Lab File: BF107503.D

Acq: 19 Jul 2018 8:55

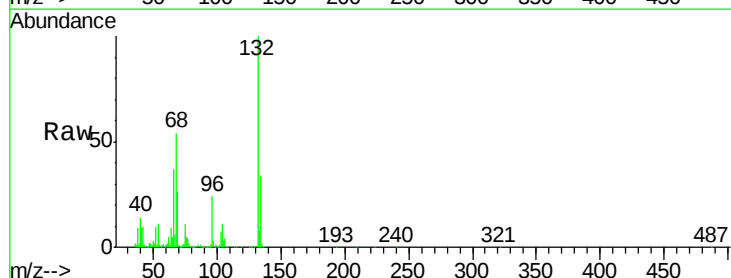
Tgt Ion: 77 Resp: 17701

Ion Ratio Lower Upper

77 100

105 77.2 81.1 121.1#

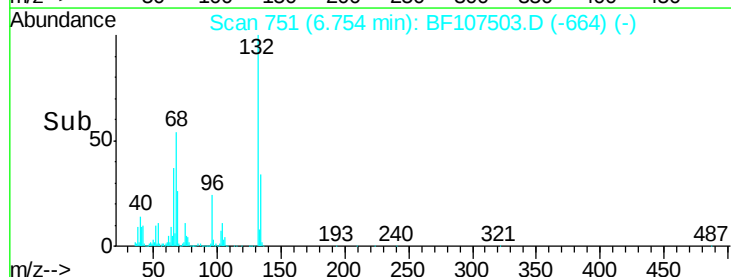
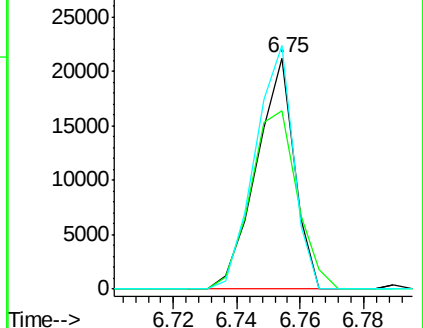
106 105.3 74.5 114.5

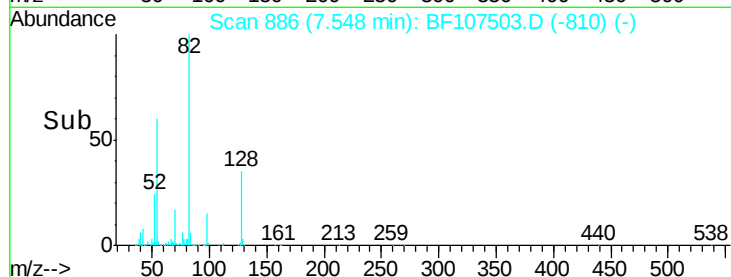
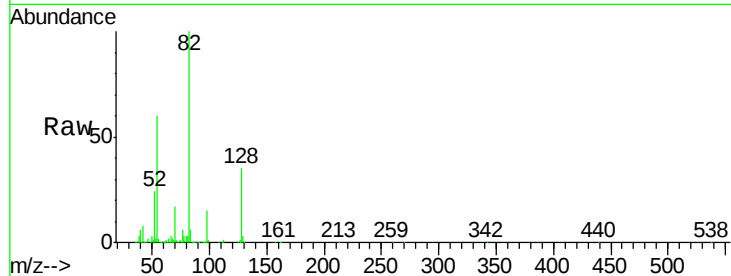
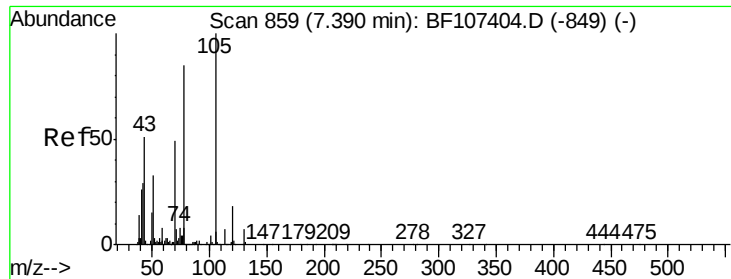


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 106.00 (105.70 to 106.70): BF1

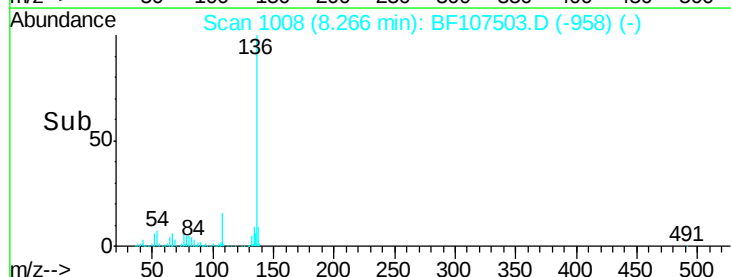
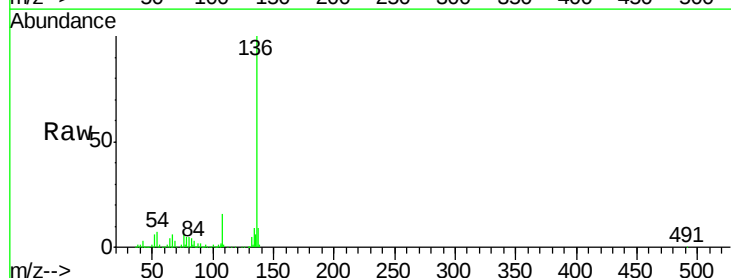
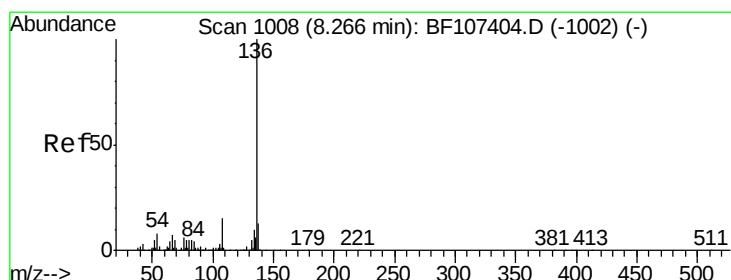
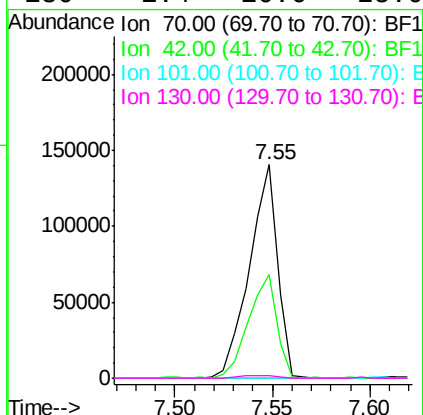




#19  
n-Nitroso-di-n-propylamine  
Concen: 20.608 ng  
RT: 7.55 min Scan# 886  
Delta R.T. 0.15 min  
Lab File: BF107503.D  
Acq: 19 Jul 2018 8:55

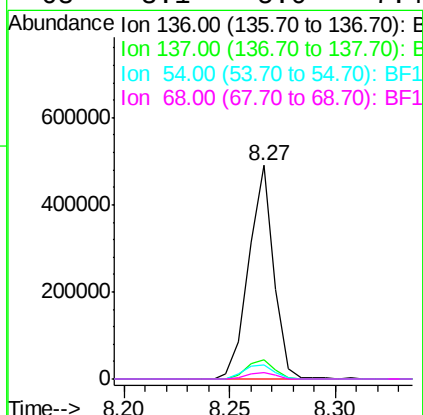
Instrument :  
BNA\_F  
ClientSampleId :  
071618-DBRI-F-D-M

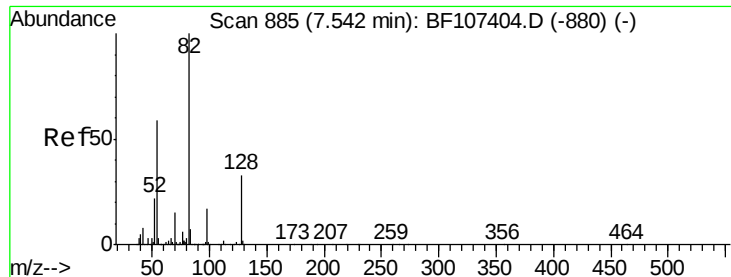
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 70    | Resp: | 140244 |
| Ion Ratio | Lower | Upper |        |
| 70        | 100   |       |        |
| 42        | 48.8  | 47.5  | 71.3   |
| 101       | 0.0   | 7.4   | 11.2#  |
| 130       | 1.4   | 16.6  | 25.0#  |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.27 min Scan# 1008  
Delta R.T. -0.01 min  
Lab File: BF107503.D  
Acq: 19 Jul 2018 8:55

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 401719 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 8.9   | 8.9   | 13.3   |
| 54        | 6.8   | 6.6   | 9.8    |
| 68        | 3.1   | 5.0   | 7.4#   |





#23

Nitrobenzene-d5

Concen: 115.796 ng

RT: 7.55 min Scan# 886

Delta R.T. -0.01 min

Lab File: BF107503.D

Acq: 19 Jul 2018 8:55

Instrument :

BNA\_F

ClientSampleId :

071618-DBRI-F-D-M

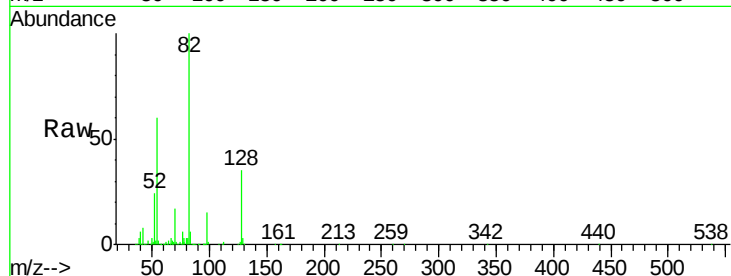
Tgt Ion: 82 Resp: 872351

Ion Ratio Lower Upper

82 100

128 35.4 36.1 54.1#

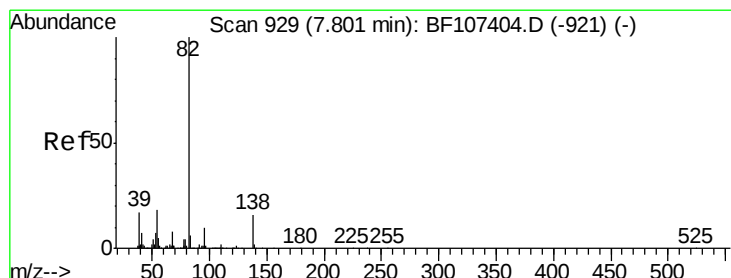
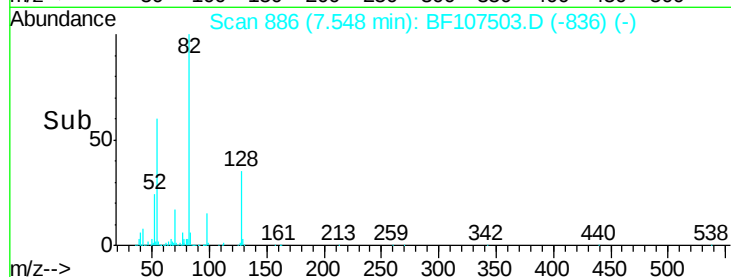
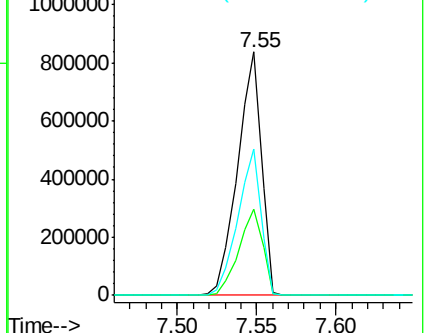
54 60.2 41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#25

Isophorone

Concen: 58.420 ng

RT: 7.55 min Scan# 886

Delta R.T. -0.26 min

Lab File: BF107503.D

Acq: 19 Jul 2018 8:55

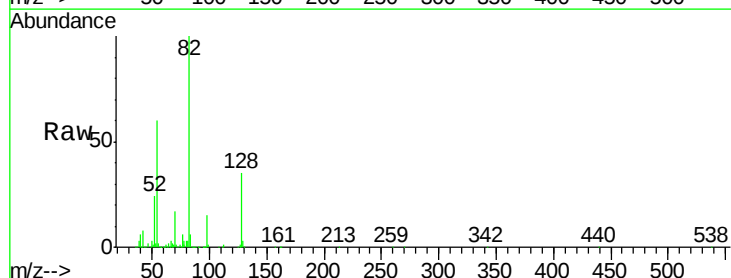
Tgt Ion: 82 Resp: 872341

Ion Ratio Lower Upper

82 100

95 0.1 5.2 7.8#

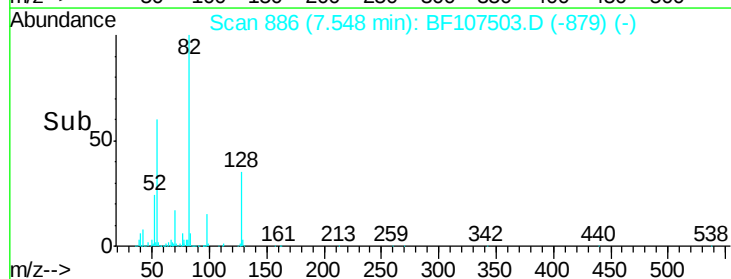
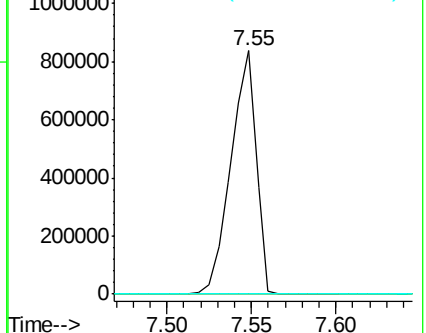
138 0.0 14.9 22.3#

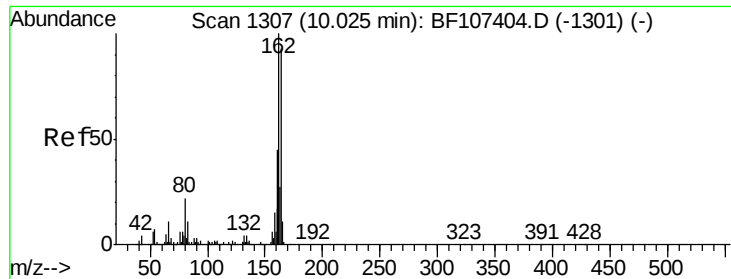


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.02 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF107503.D

Acq: 19 Jul 2018 8:55

Instrument :

BNA\_F

ClientSampleId :

071618-DBRI-F-D-M

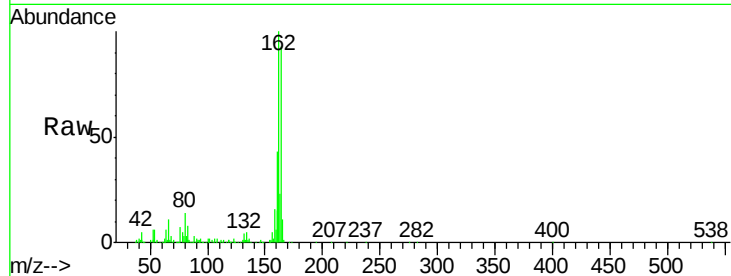
Tgt Ion:164 Resp: 203012

Ion Ratio Lower Upper

164 100

162 107.2 86.1 129.1

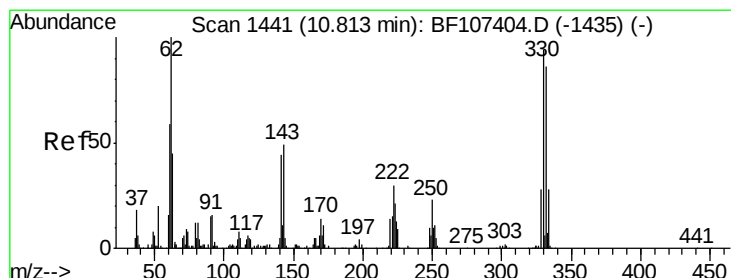
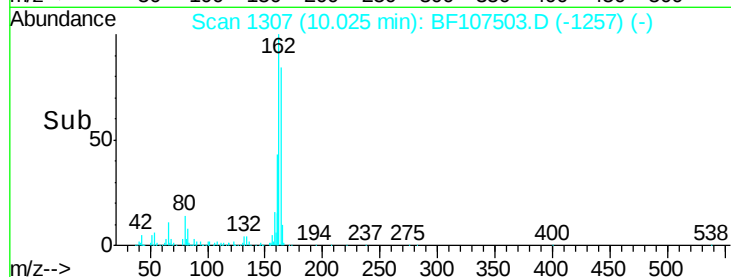
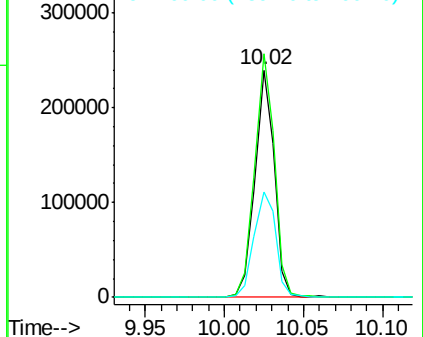
160 46.2 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 96.949 ng

RT: 10.82 min Scan# 1442

Delta R.T. -0.01 min

Lab File: BF107503.D

Acq: 19 Jul 2018 8:55

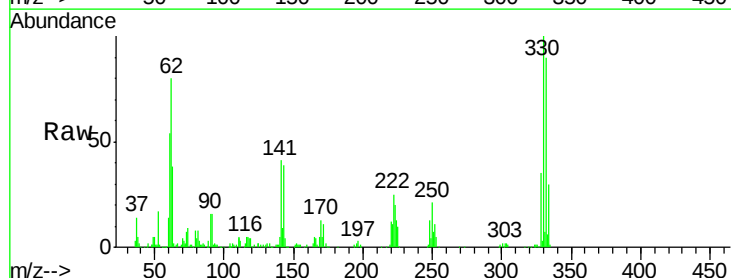
Tgt Ion:330 Resp: 172928

Ion Ratio Lower Upper

330 100

332 91.6 77.0 115.6

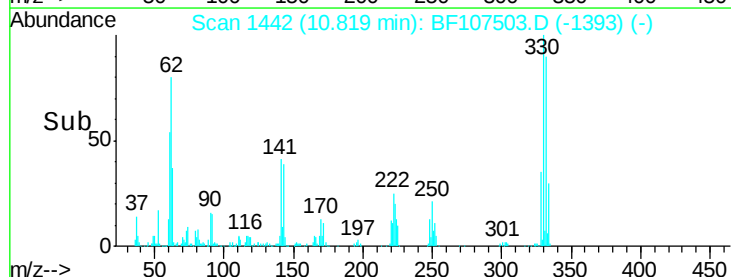
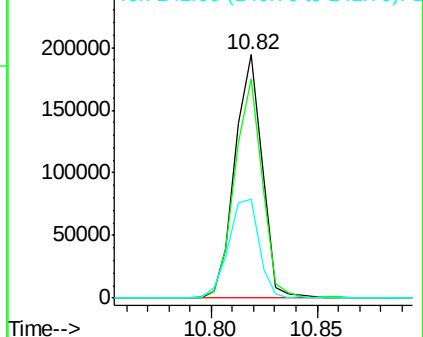
141 46.6 29.9 44.9#

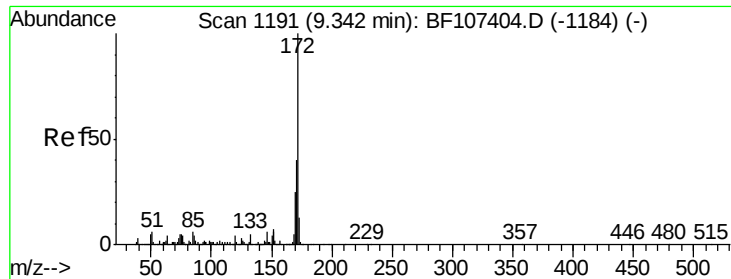


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

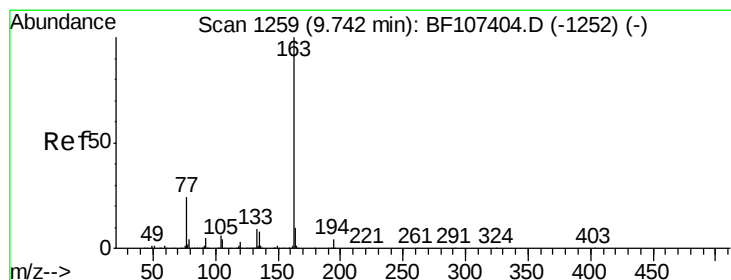
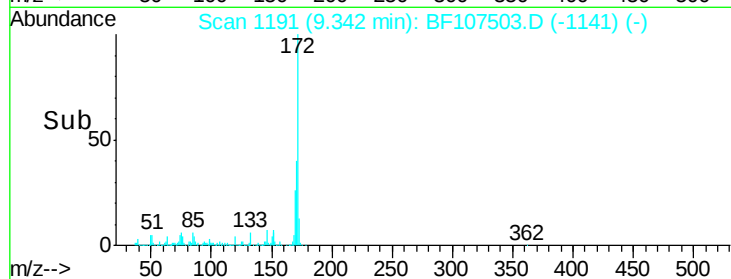
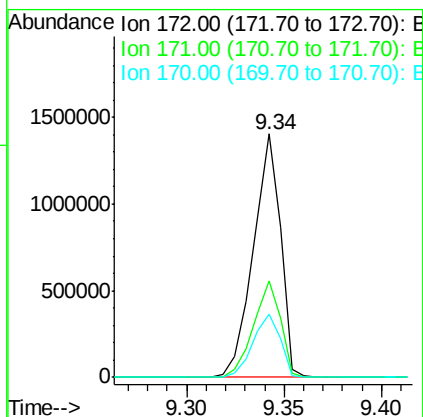
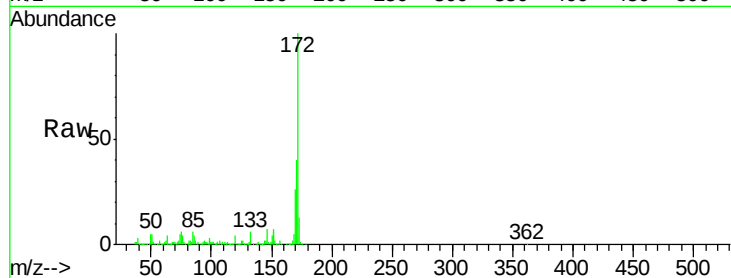




#44  
2-Fluorobiphenyl  
Concen: 114.947 ng  
RT: 9.34 min Scan# 1191  
Delta R.T. -0.01 min  
Lab File: BF107503.D  
Acq: 19 Jul 2018 8:55

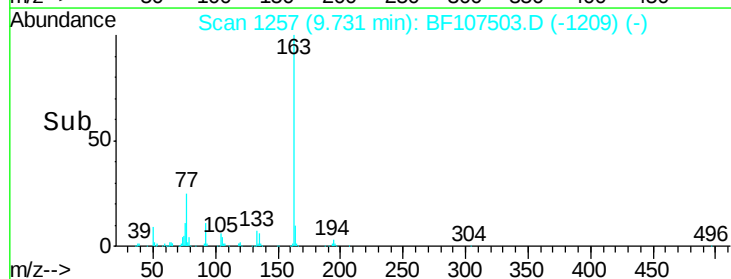
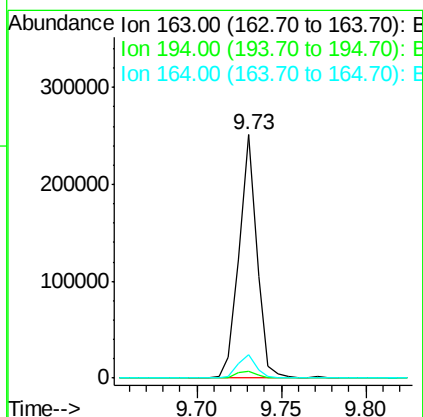
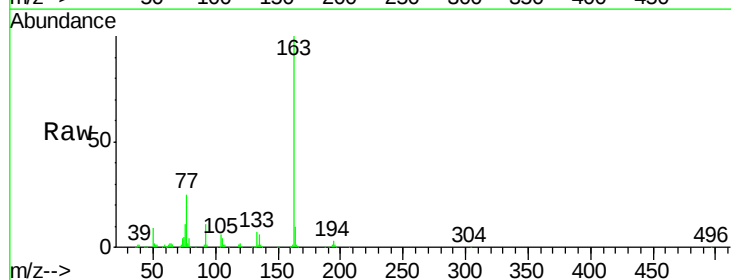
Instrument :  
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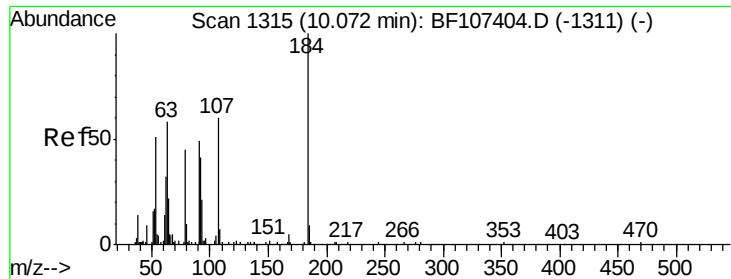
Tgt Ion:172 Resp: 1353074  
Ion Ratio Lower Upper  
172 100  
171 39.7 29.7 44.5  
170 25.7 19.6 29.4



#49  
Dimethylphthalate  
Concen: 11.503 ng  
RT: 9.73 min Scan# 1257  
Delta R.T. -0.02 min  
Lab File: BF107503.D  
Acq: 19 Jul 2018 8:55

Tgt Ion:163 Resp: 185539  
Ion Ratio Lower Upper  
163 100  
194 2.8 2.7 4.1  
164 9.7 8.2 12.2





#53

2,4-Dinitrophenol

Concen: 2.443 ng

RT: 10.08 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF107503.D

Acq: 19 Jul 2018 8:55

Instrument :

BNA\_F

ClientSampleId :

071618-DBRI-F-D-M

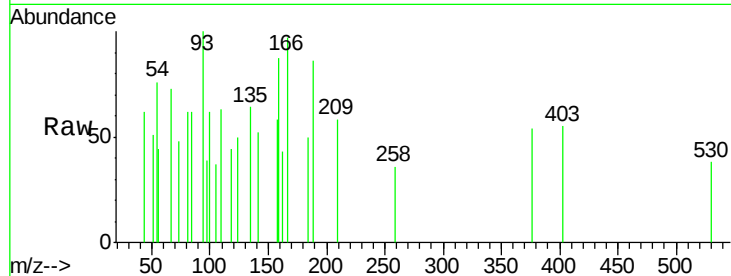
Tgt Ion:184 Resp: 145

Ion Ratio Lower Upper

184 100

63 0.0 54.2 81.2#

154 0.0 184.0 276.0#



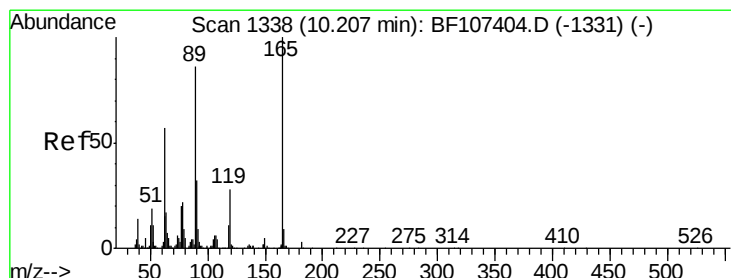
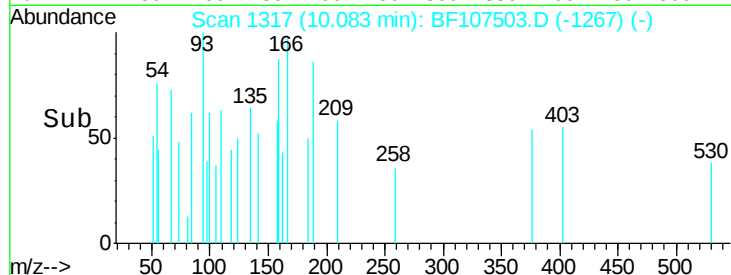
Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E

10.08

Time--> 10.06 10.08 10.10



#56

2,4-Dinitrotoluene

Concen: 6.557 ng

RT: 10.02 min Scan# 1307

Delta R.T. -0.19 min

Lab File: BF107503.D

Acq: 19 Jul 2018 8:55

Tgt Ion:165 Resp: 26308

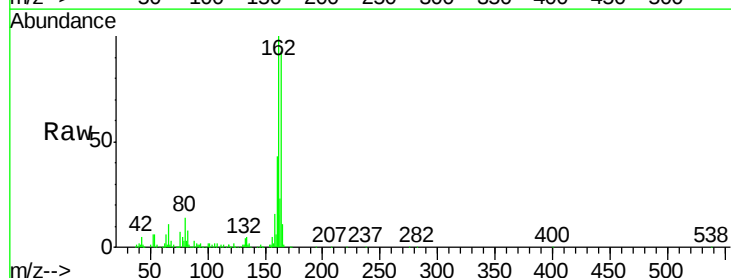
Ion Ratio Lower Upper

165 100

63 3.1 36.4 54.6#

89 2.9 57.8 86.6#

182 0.0 1.6 2.4#



Abundance Ion 165.00 (164.70 to 165.70): E

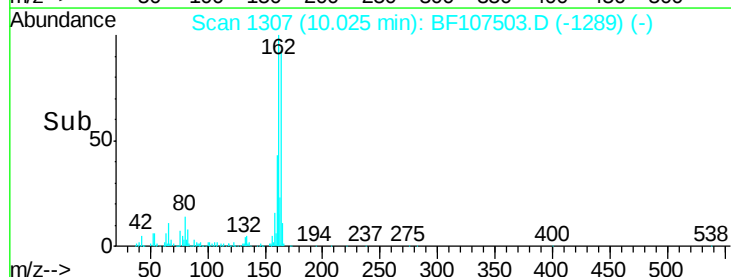
Ion 63.00 (62.70 to 63.70): BF1

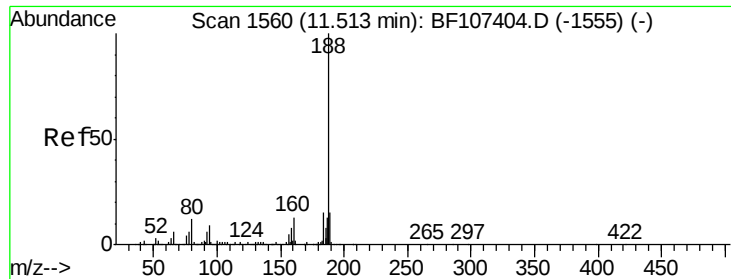
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

10.02

Time--> 10.00 10.05

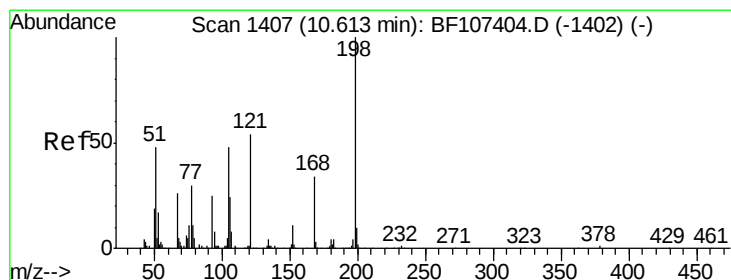
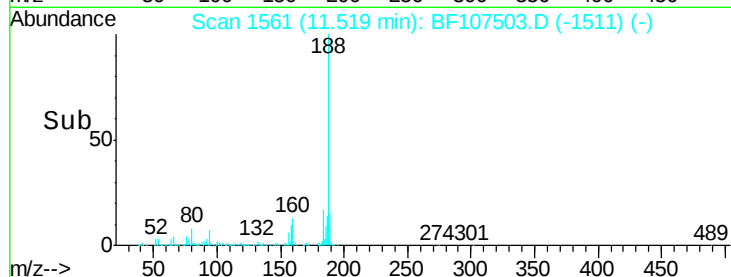
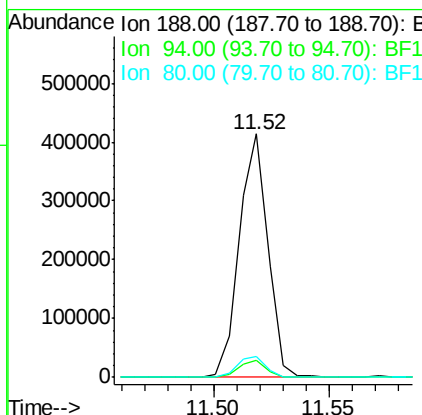
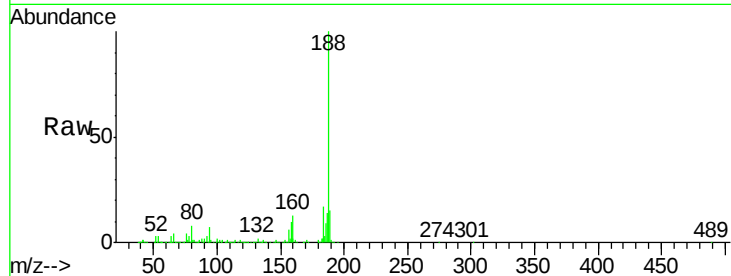




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.52 min Scan# 1561  
Delta R.T. -0.01 min  
Lab File: BF107503.D  
Acq: 19 Jul 2018 8:55

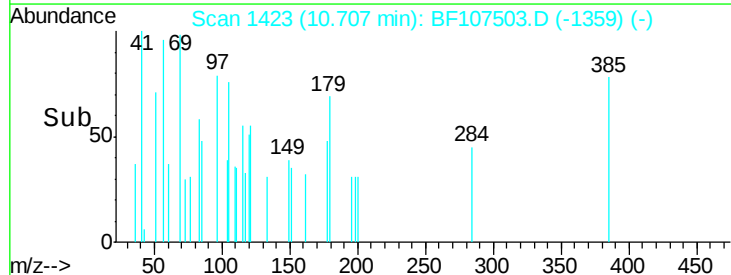
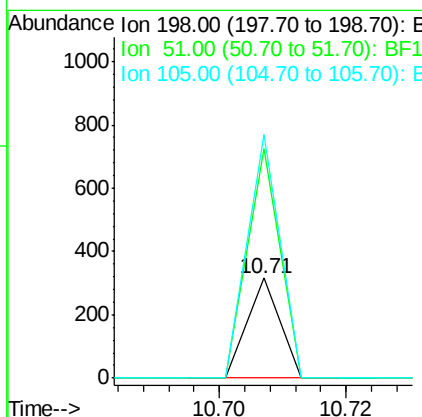
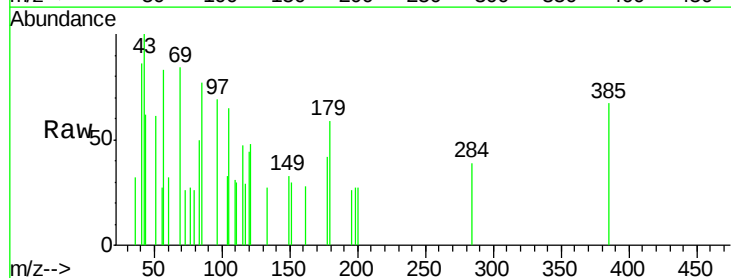
Instrument :  
BNA\_F  
ClientSampleId :  
071618-DBRI-F-D-M

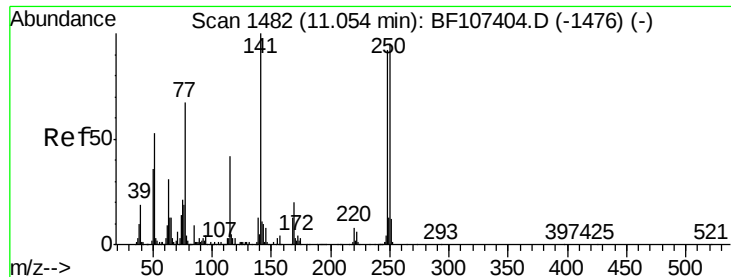
Tgt Ion:188 Resp: 358481  
Ion Ratio Lower Upper  
188 100  
94 7.2 8.5 12.7#  
80 8.4 9.2 13.8#



#64  
4,6-Dinitro-2-methylphenol  
Concen: 7.538 ng  
RT: 10.71 min Scan# 1423  
Delta R.T. 0.08 min  
Lab File: BF107503.D  
Acq: 19 Jul 2018 8:55

Tgt Ion:198 Resp: 112  
Ion Ratio Lower Upper  
198 100  
51 229.1 37.7 77.7#  
105 243.4 36.3 76.3#

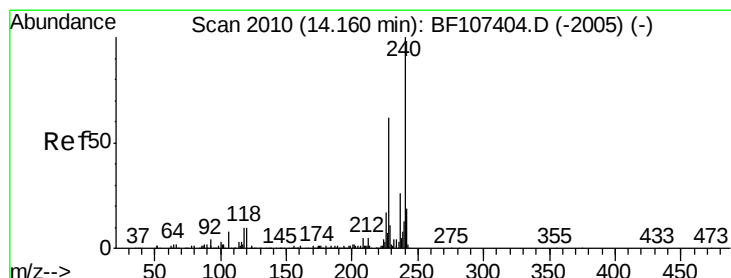
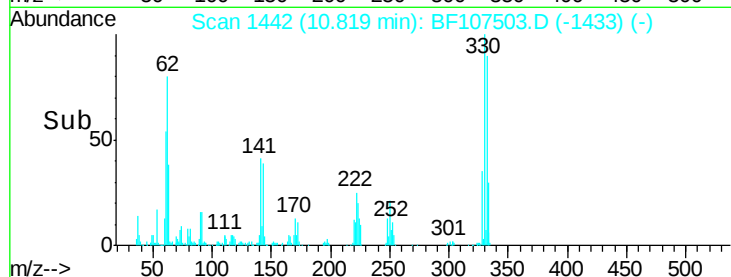
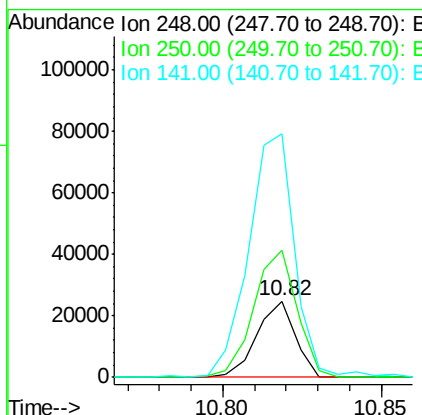
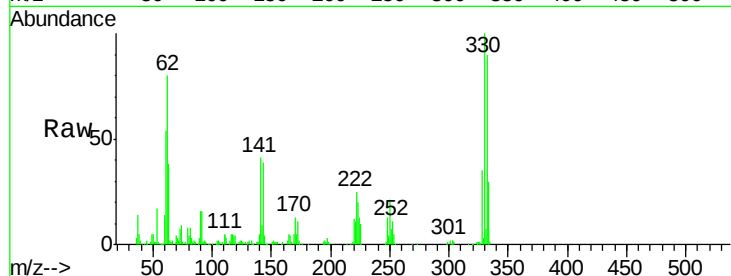




#66  
 4-Bromophenyl-phenylether  
 Concen: 5.083 ng  
 RT: 10.82 min Scan# 1442  
 Delta R.T. -0.25 min  
 Lab File: BF107503.D  
 Acq: 19 Jul 2018 8:55

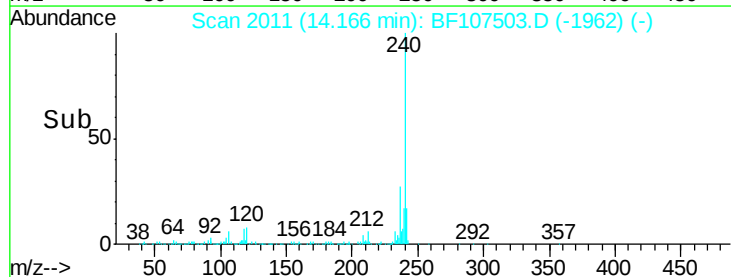
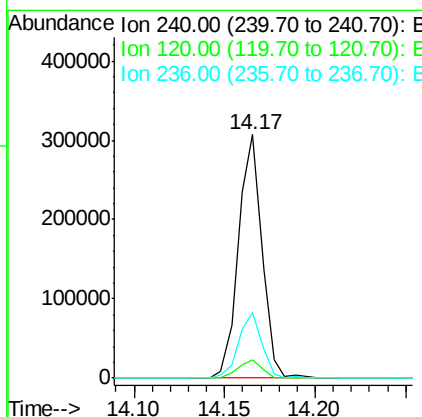
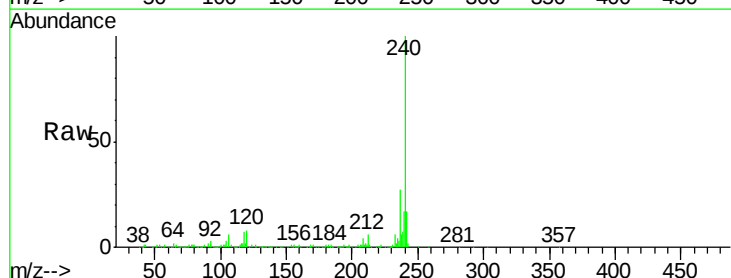
Instrument :  
 BNA\_F  
 ClientSampleId :  
 071618-DBRI-F-D-M

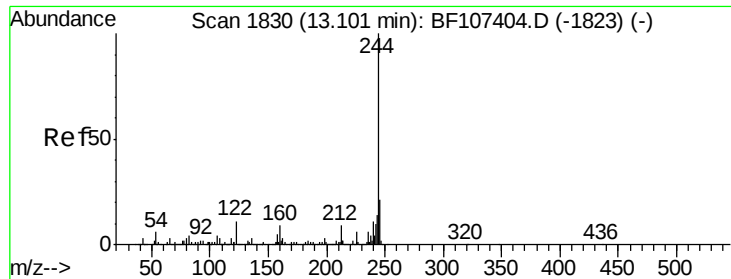
Tgt Ion:248 Resp: 20846  
 Ion Ratio Lower Upper  
 248 100  
 250 167.8 76.9 115.3#  
 141 320.0 74.4 111.6#



#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.17 min Scan# 2011  
 Delta R.T. -0.01 min  
 Lab File: BF107503.D  
 Acq: 19 Jul 2018 8:55

Tgt Ion:240 Resp: 278031  
 Ion Ratio Lower Upper  
 240 100  
 120 7.8 9.5 14.3#  
 236 27.2 20.7 31.1





#78

Terphenyl-d14

Concen: 102.080 ng

RT: 13.11 min Scan# 1831

Delta R.T. -0.01 min

Lab File: BF107503.D

Acq: 19 Jul 2018 8:55

Instrument :

BNA\_F

ClientSampleId :

071618-DBRI-F-D-M

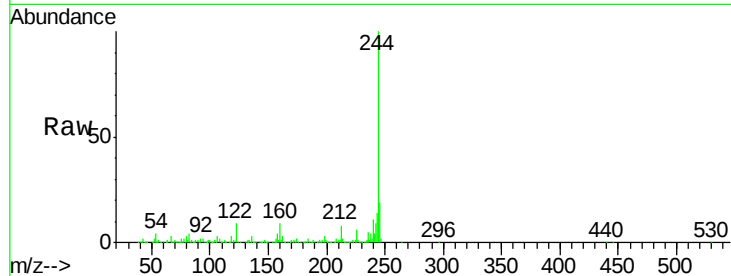
Tgt Ion:244 Resp: 1142302

Ion Ratio Lower Upper

244 100

212 8.4 5.4 8.0#

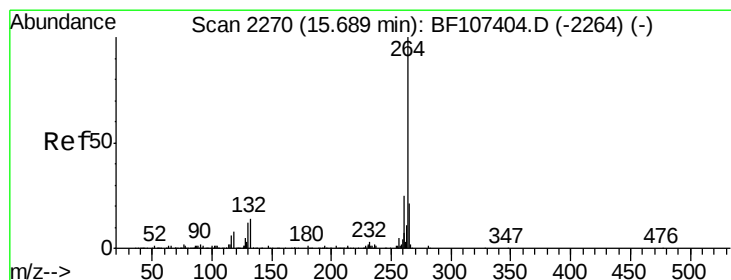
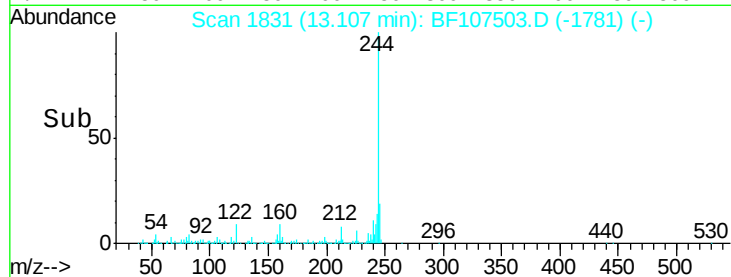
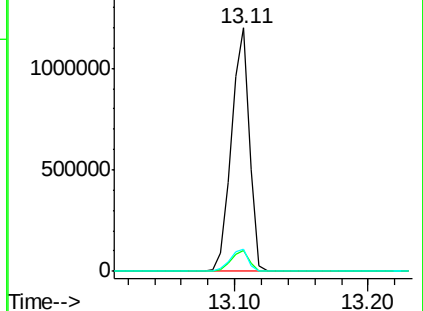
122 9.2 11.0 16.4#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.70 min Scan# 2272

Delta R.T. -0.01 min

Lab File: BF107503.D

Acq: 19 Jul 2018 8:55

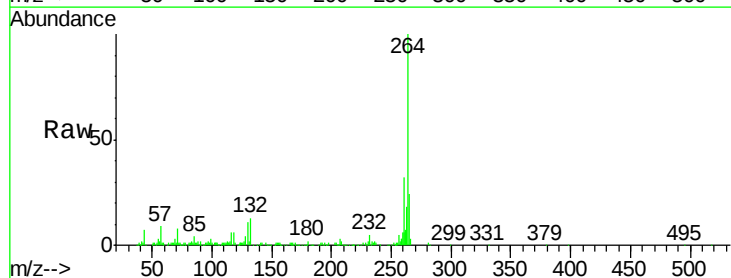
Tgt Ion:264 Resp: 231718

Ion Ratio Lower Upper

264 100

260 31.6 19.2 28.8#

265 24.1 17.5 26.3



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

